Amendments to the Claims:

This listing of claims will replace all prior versions, and listings of claims in the application:

Listing of Claims:

1	1 (currently amended): An isolated nucleic acid encoding an ABCG8
2	polypeptide, said polypeptide comprising an amino acid sequence that is at least about 70%
3	75% identical to the full-length of an amino acid sequence as set forth in SEQ ID NO:[[4 or]] 8,
4	wherein said polypeptide acts to effect sterol transport.
1	2 (currently amended): The nucleic acid of claim 1, wherein said polypeptide
2	specifically binds to polyclonal antibodies generated against a polypeptide that comprises an
3	amino acid sequence selected from the group consisting of SEQ ID NO:4 and SEQ ID NO:8.
1	3 (currently amended): The nucleic acid of claim 1, wherein said polypeptide
2	comprises an amino acid sequence having 100% identity to the full length of selected from
3	the group consisting of SEQ ID NO:4 and SEQ ID NO:8.
1	4 (original): The nucleic acid of claim 1, wherein said polypeptide forms a dimer
2	with a second ABC polypeptide, and wherein said dimer exhibits sterol transport activity.
1	5 (original): The nucleic acid of claim 4, wherein said dimer is a heterodimer.
1	6 (original): The nucleic acid of claim 4, wherein said sterol is cholesterol.
1	7 (original): The nucleic acid of claim 5, wherein said second ABC polypeptide
2	is an ABCG5 polypeptide.
	8-12 (canceled)

13 (currently amended): The nucleic acid of claim 1, wherein said nucleic acid 1 2 hybridizes under moderately stringent hybridization conditions to a nucleic acid comprising a nucleotide sequence as set forth in SEQ ID NO:[[3 or]] 7. 3 1 14 (currently amended): The nucleic acid of claim 13, wherein said nucleic acid hybridizes under stringent hybridization conditions to a nucleic acid comprising a nucleotide 2 3 sequence as set forth in SEQ ID NO:[[3 or]] 7. 15 (currently amended): The nucleic acid of claim 1, wherein said nucleic acid 1 2 comprises a nucleotide sequence at least about 70% 80% identical to the full-length of a sequence as set forth in SEQ ID NO:[[3 or]] 7. 3 1 16 (currently amended): The nucleic acid of claim 1, wherein said nucleic acid comprises a nucleotide sequence having 100% identity to the full length of as set forth in 2 3 SEQ ID NO:[[3 or]] 7. 17 (original): The nucleic acid of claim 1, wherein said nucleic acid is from a 1 2 mouse or a human. 18 (original): The nucleic acid of claim 1, wherein said nucleic acid is expressed 1 2 in the intestine or in the liver in the presence of an LXR agonist. 19 (original): The nucleic acid of claim 1, wherein said nucleic acid is expressed 1 2 in a tissue selected from the group consisting of liver, jejunum, ileum, and duodenum. 1 20 (original): An expression cassette comprising the nucleic acid of claim 1 2 operably linked to a promoter. 21 (original): An isolated cell comprising the expression cassette of claim 20. 1

22 (withdrawn): An isolated ABCG8 polypeptide, said polypeptide comprising 1 2 an amino acid sequence that is at least about 70% identical to an amino acid sequence as set forth in SEQ ID NO:4 or 8. 3 1 23 (withdrawn): The isolated polypeptide of claim 22, wherein said polypeptide 2 selectively binds to polyclonal antibodies generated against a polypeptide comprising an amino 3 acid sequence as set forth in SEQ ID NO:4 or 8. 1 24 (withdrawn): The isolated polypeptide of claim 22, wherein said polypeptide 2 comprises an amino acid sequence as set forth in SEQ ID NO:4 or 8. 1 25 (withdrawn): The isolated polypeptide of claim 22, wherein said polypeptide 2 forms a dimer with a second ABC polypeptide, and wherein said dimer exhibits sterol transport 3 activity. 26 (withdrawn): The isolated polypeptide of claim 25, wherein said dimer is a 1 2 heterodimer. 1 27 (withdrawn): The isolated polypeptide of claim 26, wherein said second ABC 2 polypeptide is ABCG5. 1 28 (withdrawn): The isolated polypeptide of claim 27, wherein said ABCG5 2 polypeptide comprises an amino acid sequence that is at least about 70% identical to an amino 3 acid sequence as set forth in SEQ ID NO:2 or 6. 1 29 (withdrawn): The isolated polypeptide of claim 27, wherein said ABCG5 2 polypeptide selectively binds to polyclonal antibodies generated against a polypeptide 3 comprising an amino acid sequence as set forth in SEQ ID NO:2 or 6. 30 (withdrawn): The isolated polypeptide of claim 27, wherein said ABCG5 1 2 polypeptide comprises an amino acid sequence selected from the group consisting of SEQ ID 3 NO:2 and SEQ ID NO:6

31 (withdrawn): The isolated polypeptide of claim 25, wherein said sterol is
cholesterol.
32 (withdrawn): The isolated polypeptide of claim 22, wherein said polypeptide
is expressed in the intestine or in the liver in the presence of an LXR agonist.
33 (withdrawn): The isolated polypeptide of claim 22, wherein said polypeptide
is expressed in a tissue selected from the group consisting of the liver, jejunum, ileum, and
duodenum.
34 (withdrawn): The isolated polypeptide of claim 22, wherein said polypeptide
is from a mouse or a human.
35 (withdrawn): An antibody generated against the isolated polypeptide of claim
22.
36 (original): A method of making an ABCG8 polypeptide, the method
comprising:
(i) introducing a nucleic acid of claim 1, into a host cell or cellular extract; and
(ii) incubating said host cell or cellular extract under conditions such that said
ABCG8 polypeptide is expressed in the host cell or cellular extract.
37 (original): The method of claim 36, further comprising recovering the
ABCG8 polypeptide from the host cell or cellular extract.
38-70 (withdrawn)
71 (new): The nucleic acid of claim 1, wherein said polypeptide is at least 80%
identical to an amino acid sequence as set forth in SEQ ID NO: 8.
72 (new): The nucleic acid of claim 1, wherein said polypeptide is at least 85%
identical to an amino acid sequence as set forth in SEQ ID NO: 8.

73 (new): The nucleic acid of claim 1, wherein said polypeptide is at least 90% 1 2 identical to an amino acid sequence as set forth in SEQ ID NO: 8. 74 (new): The nucleic acid of claim 1, wherein said polypeptide is at least 95% 1 2 identical to an amino acid sequence as set forth in SEQ ID NO: 8. 75 (new): The nucleic acid of claim 1, wherein said nucleic acid comprises a 1 nucleotide sequence at least 85% identical to a sequence as set forth in SEQ ID NO:7. 2 76 (new): The nucleic acid of claim 1, wherein said nucleic acid comprises a 1 nucleotide sequence at least 90% identical to a sequence as set forth in SEQ ID NO:7. 2 77 (new): The nucleic acid of claim 1, wherein said nucleic acid comprises a 1 2 nucleotide sequence at least 95% identical to a sequence as set forth in SEQ ID NO:7. 78 (new): The nucleic acid of claim 1, wherein said nucleic acid comprises a 1 2 conserved exon sequence selected from the group consisting of 3 CTGGTAGGTGAGATCTCTGACCTCCAGAGTGTTGGACTGACCACTGTAGGTGAAGTA CAGACTGTTGTCACTTTCCGAGGAGAACAAGCTGTCCTGGAGGCC and 4 5 CGAAGCATCCTGAAGTACAGTCCCATTCCACAGCTGGGTCTCTTCTTTGGTTTTCTCA 6 GCCAT, or the complementary sequence thereof.